

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

08CN8802

Application Number

09/683,114

Applicant(s)

JOHN E. DAVIS, ET AL.

Filing Date

NOVEMBER 20, 2001

Group Art Unit

1773

U.S. PATENT DOCUMENTS

*EXAMINER INITIALS	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>W</i>		4,492,718	01/08/85	MAYER, ET AL.			
<i>W</i>		4,584,259	04/22/86	MAYER, ET AL.			

COPY OF PAPERS
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FEB 28 2002
TC 1700

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

W *W*

DATE CONSIDERED

5/1/02

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				ATTY DOCKET NO. 08CN-8803		SERIAL NO. 09/683,114	
				JOHN E. DAVIS, et al.			
FILING 11/20/01				GROUP 1			

PATENT & TRADEMARK OFFICE
 JAN 28 2002
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U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING/DATE IF APPROPRIATE	
guy	3,198,657	8/3/65	P.D. KIMBALL et al.	117	101	9/17/64	
	4,020,278	4/26/77	CARRE et al.	358	128	10/16/75	
	4,211,617	7/8/80	HUNYAR et al.	204	5	9/21/78	
	4,243,317	1/6/81	GARBE et al.	355	91	6/27/79	
	4,267,212	5/12/81	SAKAWAKI	427	240	9/19/79	
p	4,363,844	12/14/82	LEWIS, et al.	428	65	9/20/80	
	4,451,507	5/29/84	BELTZ et al.	427	240	10/29/82	
	4,457,259	7/3/84	SAMUELS	118	705	3/14/83	
p	4,514,583	04/1985	IZU et al.	136	259		
	4,592,939	6/3/86	TEMPLE et al.	428	64	12/4/84	
	4,659,407	4/21/87	LACOTTE et al.	156	196	7/2/84	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
guy	p	WO 00/21689	2/4/00	WORLD ORGANIZATION				✓
guy	p	WO 00/00868	6/1/00	WORLD ORGANIZATION				✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			

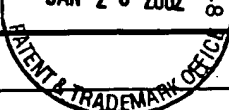
EXAMINER guy	DATE CONSIDERED 5/9/02
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
164	4,673,602	6/16/87	NAKAYAMA et al.	428	65	6/5/85
-	4,731,155	3/15/88	NAPOLI et al.	156	643	4/15/87
-	4,810,527	3/7/89	GEARY, JR. et al.	427	54.1	9/18/87
-	4,831,244	5/16/89	SLAFER et al.	235	487	10/1/87
-	4,975,327	12/4/90	SOMASIRI et al.	428	409	7/11/89
P	4,987,020	01/1991	BONNEBAT et al.	428	64	
-	5,078,947	1/7/92	NISHIZAWA et al.	264	1.1	9/28/89
-	5,094,796	3/10/92	KATOH et al.	264	313	3/10/92
-	5,094,884	3/10/92	HILLMAN et al.	427	240	4/24/90
P	5,119,259	6/2/92	KIKUCHI	360	135	12/5/90
-	5,188,863	2/23/93	de GRAAF et al.	427	512	12/18/90

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

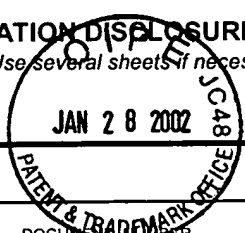
John Keefe

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5/26/02

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>NUJ</i>	5,242,630	9/7/93	NUIJ et al.	264	1.3	2/18/92
	5,335,526	8/9/94	GARRISON, deceased et al.	72	47	1/30/92
	5,395,803	3/7/95	ADAMS	437	229	9/8/93
	5,409,756	4/25/95	IKEDA et al.	428	64	9/11/92
	5,427,599	6/27/95	GRESCHNER et al.	65	305	1/11/94
	5,447,767	09/1995	TANABE et al.	428	64.4	
	5,452,282	9/19/95	ABRAHAM	369	603	6/15/92
	5,532,192	7/2/96	ADAMS	437	229	12/14/94
	5,533,002	7/2/96	ABRAHAM	369	275.3	10/19/92
	5,552,009	9/3/96	ZAGER et al.	156	220	4/10/95
	5,626,886	5/6/97	ISHII	425	116	2/21/95

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						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>plh</i>	<i>P</i> 5,772,905	6/30/98	CHOU	216	44	11/15/95
	<i>-</i> 5,781,526	7/14/98	NISHIZAWA	369	275.3	2/14/97
	<i>-</i> 5,838,654	11/17/98	KAGAWA et al.	369	275.1	5/5/97
	<i>-</i> 5,967,030	10/19/99	BLALOCK	100	211	12/6/96
	<i>P</i> 5,972,461	10/26/99	SANDSTROM	428	64.3	1/6/98
	<i>-</i> 6,010,761	1/4/00	TATEWAKI et al.	428	64.1	8/27/98
	<i>-</i> 6,062,133	5/16/00	BLALOCK	100	211	4/7/99
	<i>-</i> 6,127,017	10/3/00	HIRATA et al.	428	64.1	4/30/98
	<i>P</i> 6,136,401	10/24/00	YAMAMOTO et al.	428	64.1	01/20/00
	<i>P</i> 6,156,422	12/5/00	WU et al.	428	332	11/10/98
	<i>-</i> 6,165,391	12/26/00	VEDAMUTTU	264	1.33	1/23/97

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						YES	NO

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GROUP 3

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
fw	P	6,183,829	02/2001	DAECHER et al.	428	64.1	
	-	6,191,053	2/20/01	CHUN et al.	438	780	6/10/98
	P	6,194,045	2/27/01	ANNACONE et al.	428	64.1	11/22/95
	-	6,200,633	3/13/01	KITANO et al.	427	240	8/9/99
	-	6,225,240	5/1/01	YOU et al.	438	782	11/12/98
	-	6,232,247	5/15/01	GORDON et al.	438	780	10/4/99
	P	6,248,395	6/19/01	HOMOLA et al.	427	129	5/24/99
	P	RE 36,806	08/2000	LANDIN et al.	428	64.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 08CN 8803-25		SERIAL NO. 09/683,114	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 cfr 1.98(b))				APPLICANT John E. Davis et al.			
				FILING DATE 11/20/01		GROUP 1773	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
JAN 28 2002 OIP 3548 8348 PATENT & TRADEMARK OFFICE	5,855,746	1/5/99	Prabhakara, et al.				
	5,814,400	9/29/98	Kirino, et al.				
	5,789,756	8/4/98	Guzik				
	5,729,393	3/17/98	Lee, et al.				
	5,689,480	11/18/97	Kino				
	5,666,237	9/9/97	Lewis (Abstract)				
	5,590,115	12/31/96	Kubo				
	5,585,159	12/17/96	Miyake, et al.				
	5,583,705	12/10/96	Ziporovich, et al. (Abstract)				
	5,537,034	7/16/96	Lewis (Abstract)				
	5,533,001	7/2/96	Watanabe, et al.				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
JAN 28 2002 OIP 3548 8348 PATENT & TRADEMARK OFFICE	6-187683		Japan				
	6-4916		Japan				
	6-12715		Japan				
	6-4908		Japan				
	6-20316		Japan				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
JAN 28 2002 OIP 3548 8348 PATENT & TRADEMARK OFFICE	"Thermoplastic Composites Reinforced With Melt Processable Glass", R.T. Young and D.G. Baird (5 pages)						
	Philips Research - Digital Video Recorder, http://www.research.philips.com/pressmedia/highlights (2 pages)						
	Maxell Device: DVD-RAM, http://www.maxell.co.jp/eng/device/dvd-ram/profile.html (2 pages)						
	AV & Development Center, http://www.pioneer.co.jp/crdl/av.html (1 page)						
	Near Field Recording - NFR, http://www.nswc.navy.mil/cosip/nov98 (5 pages)						
	Technical Info, http://209.24.93.3/tech_info/background.html (3 pages)						
EXAMINER VPR Best				DATE CONSIDERED 6/2/02			
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(Form PTO-1449 [6-4])

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Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 08CN 8803-25		SERIAL NO. 09/683,114	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 cfr 1.98(b)) JAN 28 2002				APPLICANT John E. Davis et al.			
				FILING DATE 11/20/01		GROUP 1773	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
[Signature]	5,515,346	5/7/96	Watanabe, et al.	[Signature]	[Signature]		
	5,493,454	2/20/96	Ziperovich, et al. (Abstract)				
	5,490,131	2/6/96	Ohta, et al.				
	5,489,774	2/6/96	Akamine, et al. (Abstract)				
	5,470,627	11/28/95	Lee, et al.				
	5,453,168	10/26/95	Nelson, et al.				
	5,392,263	2/21/95	Watanabe, et al.				
	5,379,439	1/3/95	Harrison, et al.				
	5,354,985	10/11/94	Quate (Abstract)				
	5,354,517	10/11/94	Yamasaki, et al.				
	5,311,376	5/10/94	Joan, et al.				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
[Signature]	WO 8706385	10/22/87	World Organization (Abstract)	[Signature]	[Signature]		
	06309714JP A	11/04/94	Japan (Abstract)				
	06162583JP A	6/10/94	Japan (Abstract)				
	06158281JP A	6/07/94	Japan (Abstract)				
	06150419JP A	5/31/94	Japan (Abstract)				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
[Signature]	Strategic Partners Home, http://209.24.93.3/partners/index.html (1 page)						
	TeraStor, http://www.terastor.com/news/ , (6 pages)						
[Signature]	The era of giant magnetoresistive heads, http://www.storage.ibm.com/hardsoft/diskdrdl/technolo/gmr/ (16 pages)						
	Chp 3: Emerging Optical Storage Technologies, http://itri.loyola.edu/opto/c3_s5.htm (4 pgs.)						
[Signature]	Chp 3: Optical Storage in the Future, http://itri.loyola.edu/ (2 pages)						
	Chp 3: Overview of Optical Storage Systems, http://itri.loyola.edu/ (4 pages)						
EXAMINER [Signature]			DATE CONSIDERED [Signature]				
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(Form PTO-1449 [6-4])

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Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 08CN 8803-25		SERIAL NO. 09/683,114	
Information Disclosure Statement By Applicant (Use several sheets if necessary) <div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> JAN 28 2002 PATENT & TRADEMARK OFFICE </div>				APPLICANT John E. Davis et al		<div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> JAN 3 2002 TC 100 </div>	
				FILING DATE 11/20/01			
				U.S. PATENT DOCUMENTS			

EXAMINER INITIAL	PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>HP</i>	5,309,303	5/3/94	Hsia, et al.	/	/	
	5,296,528	3/22/94	Lütjens, et al.			
	5,242,761	9/7/93	Uchiyama (Abstract)			
	5,230,025	7/20/93	Fishbine, et al.			
	5,202,880	4/13/93	Lee, et al.			
	5,199,090	3/30/93	Bell			
	5,193,039	3/9/93	Smith, et al. (Abstract)			
	5,191,563	3/2/93	Lee, et al. (Abstract)			
	5,178,926	1/12/93	Tanaka, et al.			
	5,177,656	1/5/93	Hughes			
	5,171,585	12/15/92	Onisawa, et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>HP</i>	06119668JP A	4/28/94	Japan (Abstract)	/	/		
	06004908JP A	1/14/94	Japan (Abstract)				
	06004916JP A	1/14/94	Japan (Abstract)				
	06187683JP A	7/08/94	Japan (Abstract)				
	06020316JP A	1/28/94	Japan (Abstract)				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)		
<i>HP</i>		Chp 3: Comparison of Japanese and U.S. R&D, http://itri.loyola.edu/ (1 page)
		"Learning and Process Improvement during Production Ramp-Up", Christian Terwiesch and Roger E. Bohn, The Wharton School, University of California San Diego, August 6, 1998 (33 pages)
		"Magnetic Storage Research Aiming at High Areal Densities", R&D Magazine, Dec. 1998 (6 pages)
		The WTEC High Density Data Storage Study, http://itri.loyola.edu/ (2 pages)
		"Characterization of Magnetizing Process for Pre-Embossed Servo Pattern of Plastic Hard Disks", Shoji Tanaka et al., IEEE Transactions on Magnetics, Vol.30, No. 6, Nov. 1994 (3 pages)
		Dispersed Concentration, David McKendrick, Report 98-03, November, 1998, http://www-irps.ucsd.edu/~sloan/papers (16 pages)
EXAMINER <i>HP</i> <i>EB</i> DATE CONSIDERED <i>3/9/02</i>		

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>WWS</i>	5,161,134	11/3/92	Lee (Abstract)				
	5,159,511	10/27/92	Das (Abstract)				
	5,143,797	10/1/92	Hashima, et al.				
	5,137,991	8/11/92	Epstein, et al.				
	5,118,771	6/2/92	Inoue, et al.				
	5,112,701	5/12/92	Katsuragawa				
	5,112,662	5/12/92	Ng (Abstract)				
	5,109,377	4/28/92	Yamamoto, et al.				
	5,106,553	4/21/92	Onisawa, et al.				
	5,100,741	3/31/92	Shimoda, et al.				
	5,097,370	3/17/92	Hsia				
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	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
<i>WWS</i>	06012715JP A	1/21/94	Japan (Abstract)				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
<i>WWS</i>	Proposal to the Alfred P. Sloan Foundation from The Graduate School of International Relations and Pacific Studies and The Center For Magnetic Recording Research, Feb. 19, 1998, http://www-irps.ucse.edu/~sloan/papers/sloanprop98.html (27 pages)						
	"Use of high performance resins for the planarization of magnetic rigid disk substrates", IEEE Transactions on Magnetics (Nov. 1991), vol.27, no.6, pt.2, p.5175-7 (Abstract) (1 page)						
	"Planarizing coating using PMR polyimides (magnetic recording discs), IBM Technical Disclosure Bulletin (Oct. 1982) vol.25, no.5, p.2453-4 (Abstract)						
	"Nanoimprint lithography", Stephen Y. Chou et al., 1996 American Vacuum Society p.4129-4133						
	"Imprint of sub-25 nm vias and trenches in polymers", Stephen Y. Chou et al., 1995 American Institute of Physics, p.3114-3116						
	"Nano-compact disks with 400 Gbit/in ² storage density fabricated using nanoimprint lithography and read with proximal probe", Peter R. Krauss et al, 1997 American Institute of Physics, p. 3174-3176						
EXAMINER <i>WWS</i>				DATE CONSIDERED 3/9/02			

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<i>NWS</i>		3/10/92	Ise, et al.				
		3/3/92	Suzuki, et al.				
		2/11/92	Onagi, et al.				
		11/5/91	Kohara, et al.				
		10/22/91	Takahashi, et al.				
		5/21/91	Goldberg				
		5/7/91	Goldberg, et al.				
		3/26/91	Yamashita				
		3/12/91	Cowan				
		1/22/91	Izuka, et al.				
		1/8/91	Matsuo, et al.				
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
<i>NWS</i>		"Patterned Media: A Viable Route to 50 Gbit/in ² and up for Magnetic Recording?", Robert J. White et al., IEEE Transactions on Magnetics, vol. 33, no. 1, Jan. 1997, p.990-995					
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EXAMINER <i>NWS</i>			DATE CONSIDERED <i>8/2/01</i>				
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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Information Disclosure
Statement by Applicant

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Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 08CN 8203-25		SERIAL NO. 09/683,114	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 cfr 1.98(b))				APPLICANT John E. Davis et al.			
				FILING DATE 11/20/01		GROUP 1773	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
JWS	5,120,603	6/09/92	Schmidt (Abstract)	/	/		
	5,164,465	11/17/92	Epstein, et al. (Abstract)				
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
EXAMINER <i>He BPT</i>				DATE CONSIDERED <i>5/9/02</i>			
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[illegible]

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